

LIST OF CONTENTS

NUMBER 1

E. G. Ladopoulos	1	Singular integral operators method for three-dimensional elasto-plastic stress analysis
K. Gowri, C. Marsh, C. Bedard and P. Fazio	9	Knowledge-based assistant for aluminum component design
Y. S. Feng and L. Yang	21	Reliability analysis of structure and control mechanism of aircraft flap
H. F. Barros, C. M. S. Marques and R. A. F. Martins	25	A symmetric formulation in non-associated plasticity
D. G. Fertis, R. Taneja and C. T. Lee	31	Equivalent systems for inelastic analysis of non-prismatic members
E. Graff and G. S. Springer	41	Stress analysis of thick, curved composite laminates
Y. W. Kwon	57	Finite element analysis of dynamic instability of layered composite plates using a high-order bending theory
B. S. K. Sundarasivarao and N. Ganesan	63	Axisymmetric deformation of varying thickness cylindrical shell with various end conditions
C. J. Goh and C. M. Wang	73	Generalized shooting method for elastic stability analysis and optimization of structural members
M. P. Saka	83	Optimum geometry design of roof trusses by optimality criteria method
Y. K. Yong, P. C. Y. Lee and S. S. Chuang	93	Vibrations of a Z-cut quartz resonator-structure in the vicinity of the third overtone of extensional mode
A. C. Singhal	107	Comparison of computer codes for seismic analysis of dams
H.-S. Jing	113	On the limitation principles for partial hybrid stress model
	119	Erratum
	I	Software Survey Section

NUMBER 2

P. R. Devloo	121	A three-dimensional adaptive finite element strategy
T. Kant and M. P. Menon	131	Estimation of interlaminar stresses in fibre reinforced composite cylindrical shells

I. M. May and J. H. Naji	149	Nonlinear analysis of infilled frames under monotonic and cyclic loading
I. E. Harik, X. Liu and R. Ekambaram	161	Elastic stability of plates with varying rigidities
P. Hájek and D. M. Frangopol	171	Optimum design of shear-wall systems
M. N. Keshava Rao, M. V. Dharaneepathy, S. Gomathinayagam, K. Rama Raju and K. G. Sudesh	185	OSTA software—offshore/onshore structural analysis under UNIX system
WeiPing Zhang and E. M. Lui	203	A parallel frontal solver on the Alliant FX/80
K. P. Rao and B. Tripathy	217	Composite cylindrical panels—optimum lay-up for buckling by ranking
M. A. Ajiz	227	Implementation of Gram–Schmidt triangularization method using sequential column pointer data structure
B. V. Sankar	239	A finite element for modeling delaminations in composite beams
J. Raamachandran	247	<i>Technical Note</i> Vibrations of plates using charge simulation method
		I Software Survey Section

NUMBER 3

Y. Xia and C. Ruiz	251	Analysis of damage in stress wave loaded uni-directional composites
P. Balasubramanian, H. K. Suhas and V. Ramamurti	259	Skyline solver for the static analysis of cyclic symmetric structures
M. A. Baddourah and D. T. Nguyen	269	Parallel-vector processing for linear programming
C. M. Anekwe	283	Application of formex algebra to bandwidth minimization
O. von Estorff	289	Dynamic response of elastic blocks by time domain BEM and FEM
M. E. M. El-Sayed, D. Marjadi and E. Sandgren	301	Force method formulations based on Hamilton's principle

- J. A. Nemes and J. Eftis** 317 Several features of a viscoplastic study of plate-impact spallation with multidimensional strain
- M. P. Saka and M. S. Hayalioglu** 329 Optimum design of geometrically nonlinear elastic-plastic steel frames
- E. Graff and M. Eisenberger** 345 Non-linear analysis of framed structures with axial constraints
- S. Oral** 353 A shear flexible finite element for nonuniform, laminated composite beams
- S. Tolson and N. Zabaraz** 361 Finite element analysis of progressive failure in laminated composite plates

I Software Survey Section

NUMBER 4

- S. N. Patnaik, L. Berke and R. H. Gallagher** 377 Integrated force method versus displacement method for finite element analysis
- S. Kemal Ider** 409 Modeling of control forces for kinematical constraints in multibody systems dynamics—a new approach
- K. S. Surana and Y. Guo** 415 p -Version axisymmetric solid element for heat conduction
- K. S. Surana and N. J. Orth** 429 Completely hierarchical axisymmetric shell element based on p -version for heat conduction in laminated composites
- W. F. Cofer and K. M. Will** 449 A three-dimensional, shell-solid transition element for general nonlinear analysis
- A. Gupta, J. Kiusalaas and M. Saraph** 463 Cubic B -spline for finite element analysis of axisymmetric shells
- Huang Dade** 469 Analysis of laminated plates and shells by using Spline Gauss Collocation Method
- R. C. Batista, R. C. Antonini and R. V. Alves** 475 An asymptotic modal approach to nonlinear structural elastic instability

I Software Survey Section

NUMBER 5/6

- O. G. McGee and K. F. Phan** 485 A robust optimality criteria procedure for cross-sectional optimization of frame structures with multiple frequency limits

P. E. O'Donoghue, S. T. Green, M. F. Kanninen and P. K. Bowles	501	The development of a fluid/structure interaction model for flawed fluid containment boundaries with applications to gas transmission and distribution piping
R. K. Singh, T. Kant and A. Kakodkar	515	Coupled shell-fluid interaction problems with degenerate shell and three-dimensional fluid elements
Cha'o-Kuang Chen and Chien-Hsin Chen	529	Non-Darcian effects on conjugate mixed convection about a vertical circular pin in a porous medium
Rui-Ying Cai, Zhao-Jing Zeng and Fen Chen	537	Partitioning technique for boundary element method
A. M. Memari and H. H. West	547	Computation of bridge design forces from influence surfaces
Y. Ding and B. J. D. Esping	557	An improved multilevel optimization approach
C. A. Rogers, C. Liang and J. Jia	569	Structural modification of simply-supported laminated plates using embedded shape memory alloy fibers
C.-C. Lin and A.-J. Yu	581	Optimum weight design of composite laminated plates
S. F. Ng and N. Bencharif	589	On the design and analysis of simply supported and clamped thick rectangular plates
A. K. Verma and S. S. Dey	597	Integrated analysis of curved bridge superstructures by variational finite difference method
Z.-E. Boutaghou, K. K. Tamma and A. G. Erdman	605	Continuous/discrete modeling and analysis of elastic planar multi-body systems
G. Yagawa, N. Soneda and S. Yoshimura	615	A large scale finite element analysis using domain decomposition method on a parallel computer
K. R. Sivadas and N. Ganesan	627	Asymmetric vibration analysis of thick composite circular cylindrical shells with variable thickness
H.-T. Hu and W. C. Schnobrich	637	Nonlinear finite element analysis of reinforced concrete plates and shells under monotonic loading
J. Jirousek and M. N'Diaye	653	Accurate evaluation of support reactions in finite element plate-bending analysis
T. D. Hien and M. Kleiber	659	Stochastic structural design sensitivity of static response

Mallikarjuna

Technical Note

669 An important note on symmetry line boundary conditions in fibre-reinforced laminated anisotropic composites

I Software Survey Section

**Reproduced with the permission of Pergamon Press Inc., by University
Microfilms Inc. Duplication or resale without permission is prohibited.**

